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DETAILED ACTION

Allowable Subject Matter

1. Claims 10-13 allowed.

2. The following is an examiner's statement of reasons for allowance: After

searching through patent and non-patent literature, there was no evidence that there

exists a limitation in direct relation or an obvious variant to the limitations of:

NOTE: After searching through patent and non-patent literature, there was no evidence

that there exists a limitation in direct relation or an obvious variant to the limitations of:

Claims 10 and 12:

"...a method whereby said distance is calculated by correcting said one of said voice

and musical tone signal frequency component and elements of said code vector in said

auditory masking area, in a direction where said distance between said voice and

musical tone signal frequency component and elements of said code vector is reduced,

to a boundary position in said auditory masking area"

Claims 11 and 13:

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"...a method whereby, in said distance between said voice and musical tone signal frequency component and said elements of code vector, said distance is calculated by correcting a distance between two boundaries of said auditory masking area to a value multiplying said distance between said two boundaries by a coefficient equal to or less than one"

3. Further, all arguments directed to claims 10-13 were considered in light of the specification and is believed to overcome the current references used for rejection, particularly the closest: US 5563953 A, US 5649052 A, US 5864797 A, US 6308150 B1, US 5502789 A, US 6990443 B1.

When searching for additional prior art for the limitation as recited in claims 10-13 the most relevant topics pertained to material from the same Inventor and Assignee but did not teach or suggest the aforementioned limitation of claims 10-13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Colucci whose telephone number is (571)-

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270-1847. The examiner can normally be reached on 9:30 am - 6:00 pm, Monday-

Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached on (571)-272-7602. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael C Colucci/

Examiner, Art Unit 2626

Patent Examiner

AU 2626

(571)-270-1847

Examiner FAX: (571)-270-2847

Michael.Colucci@uspto.gov

/Richemond Dorvil/

Supervisory Patent Examiner, Art Unit 2626